ABSTRACT

There is described a method for manipulation, storage, modeling, visualization, and quantification of datasets, which correspond to target strings. A number of target

5   strings are provided. An iterative algorithm is used to generate comparison strings corresponding to some set of points that can serve as the domain of an iterative function. Preferably these points are located in the complex plane, such as in and/or near the Mandelbrot Set or a Julia Set. These comparison strings are also datasets. The comparison string is scored by evaluating a function having the comparison string

10   and one of the plurality of target strings as inputs. The score measures a relationship between a comparison string and a target string. The evaluation may be repeated for a number of the other target strings. The score or some other property corresponding to the comparison string is used to determine the target string's placement on a map. The target string may also be marked by a point on a visual display. The coordinates of the

15   point corresponding to the target string or properties of the comparison string may be stored in memory, a database or a table. Mapped or marked points in a region of interest can be explored by examining a subregion with higher resolution. The points are analyzed and/or compared by examining, either visually or mathematically, their relative locations, their absolute locations within the region, and/or metrics other than

20   location.